Abstract

A magnetic recording medium containing a B-2 structured ruthenium-aluminum underlayer comprising a (200) crystallographic orientation with a thickness from about 50 Å to about 800 Å, and a magnetic layer with a Co(11.0) crystallographic orientation, and a method of making the same are disclosed. The medium deposited on mechanically textured and surface-oxidized NiP film has a relatively high remanent coercivity and a relatively high signal to medium noise ratio even at low OR-Mrt.